Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2020-01-07-23** **Date: 15-11-19**
Project Name	:	Improvements to Roads and Drains at Valmiki Maharshi road, AD Colony, Munithimayya Layout Cross Roads and Surrounding Area in Ward No. 01 of Yelahanka Sub Division
Agency	:	M/s. Technical Managaer (West) KRIDL, Bangaluru, 5th Block 17th Main Shivakumar Swamy Building, Bhashyam Circle Bangalore:560010
Customer's Reference	:	BBMP/EE/YNK.D/W.O/150/2019-20
Date of Receipt	:	12-11-19
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	13-11-19
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	1.94	–
2	Finess by Air permeablity method (m^2/kg,Min)	285.3	225m^2/kg, Min
3	Density (gm/cc)	3.13	–
4	Standard Consistency (%)	29.5%	Not specified
5	Initial Setting time	150 minutes	Not less than 30 minutes
6	Final Setting time	245 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm

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Format No: CP/TF/01

TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2020-01-07-23** **Date: 15-11-19**

Project Name : Improvements to Roads and Drains at Valmiki Maharshi road, AD Colony, Munithimayya Layout Cross Roads and Surrounding Area in Ward No. 01 of Yelahanka Sub Division

Agency : M/s. Technical Managaer (West) KRIDL, Bangaluru, 5th Block 17th Main Shivakumar Swamy Building, Bhashyam Circle Bangalore:560010

Customer's Reference : BBMP/EE/YNK.D/W.O/150/2019-20

Date of Receipt : 12-11-19

Sample Type : 40mm down size coarse aggregate

Reference to BIS codes : IS: 383:2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1,3,4) RA2011
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
IS 2386 Part 4: Mechanical Properties

Date of test : 12-11-19

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : **15000** **grams**

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	254	254	1.7	98.3	90-100
3	20 mm	5422	5676	37.8	62.2	30-70
4	10 mm	4132	9808	65.4	34.6	10-35
5	4.75 mm	4854	14662	97.7	2.3	0-5
6	Pan	338	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2020-01-07-23** **Date: 15-11-19**
Project Name	:	Improvements to Roads and Drains at Valmiki Maharshi road, AD Colony, Munithimayya Layout Cross Roads and Surrounding Area in Ward No. 01 of Yelahanka Sub Division
Agency	:	M/s. Technical Managaer (West) KRIDL, Bangaluru, 5th Block 17th Main Shivakumar Swamy Building, Bhashyam Circle Bangalore:560010
Customer Reference	:	BBMP/EE/YNK.D/W.O/150/2019-20
Date of Receipt	:	12-11-19
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	12-11-19

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	235	235	4.7	95.3	90-100
3	10 mm	2470	2705	54.1	45.9	25-55
4	4.75 mm	2133	4838	96.8	3.2	0-10
5	Pan	162	5000	100	0	–

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TEST REPORT OF FINE AGGREGATE

Lab ID : CP-2020-01-07-23 **Date: 15-11-19**

Project Name : Improvements to Roads and Drains at Valmiki Maharshi road, AD Colony, Munithimayya Layout Cross Roads and Surrounding Area in Ward No. 01 of Yelahanka Sub Division

Agency : M/s. Technical Managaer (West) KRIDL, Bangaluru, 5th Block 17th Main Shivakumar Swamy Building, Bhashyam Circle Bangalore:560010

Customer's Reference : BBMP/EE/YNK.D/W.O/150/2019-20

Date of Receipt : 12-11-19

Sample Type : Fine Aggregate

Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1, 3) RA2012
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption

Date of test : 12-11-19

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	25	25	2.5	97.5	90-100	90-100	90-100	95-100
3	2.36 mm	51	76	7.6	92.4	60-95	75-100	85-100	95-100
4	1.18 mm	238	314	31.4	68.6	30-70	55-90	75-100	90-100
5	600 micron	206	520	52.0	48.0	15-34	35-59	60-79	80-100
	300 micron	201	721	72.1	27.9	5-20	8-30	12-40	15-50
	150 micron	192	913	91.3	8.7	0-10	0-10	0-10	0-15
	Pan	87	1000	100.0	0.0	---	---	---	---

t :The tested Sample Conforms to Grading Zone II

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HIGHWAY & BUILDING MATERIALS TESTING LABORATORY

Format No: CP/TF/01

TEST RESULTS OF STEEL

Lab ID : **CP-2020-01-07-23** **Date: 18-11-19**

Project Name : Improvements to Roads and Drains at Valmiki Maharshi road, AD Colony, Munithimayya Layout Cross Roads and Surrounding Area in Ward No. 01 of Yelahanka Sub Division

Agency : M/s. Technical Managaer (West) KRIDL, Bangaluru, 5th Block 17th Main Shivakumar Swamy Building, Bhashyam Circle Bangalore:560010

Customer's Reference : BBMP/EE/YNK.D/W.O/150/2019-20

Date of Receipt : 16-11-19

Sample Type : Sunvik

Reference to BIS codes : IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012.

Date of test: : 16-11-19

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	Sunvik	Fe500	8	0.391	512	652	20.0%	Satisfactory	Satisfactory
2	Sunvik	Fe500	10	0.616	528	672	20.0%	Satisfactory	Satisfactory
3	Sunvik	Fe500	12	0.888	544	668	20.0%	Satisfactory	Satisfactory

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Quality Manager

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HIGHWAY & BUILDING MATERIALS TESTING

Format No: CP/TF/01

TEST REPORT OF PRECAST COVER SLAB

Lab ID : **CP-2020-01-07-23** **Date: 29-11-19**

Project Name : Improvements to Roads and Drains at Valmiki Maharshi road, AD Colony, Munithimayya Layout Cross Roads and Surrounding Area in Ward No. 01 of Yelahanka Sub Division

Agency : M/s. Technical Managaer (West) KRIDL, Bangaluru, 5th Block 17th Main Shivakumar Swamy Building, Bhashyam Circle Bangalore:560010

Customer's Reference : BBMP/EE/YNK.D/W.O/150/2019-20

Date of Receipt : 25-11-19

Sample Type /Size : Precast Cover Slab(250mm)

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete

Date of test : 25/11/2019

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	200.51	250.48	3.116	31570	240.9	7.6	7.1	8.9
2	Cover Slab-2	200.49	250.52	3.122	31564	242.3	7.7	7.1	8.9
3	Cover Slab-3	200.50	250.51	3.118	31567	241.5	7.7	7.1	8.9

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TEST REPORT OF CEMENT CONCRETE KERB STONE

Lab ID : **CP-2020-01-07-23** **Date: 07-12-19**

Project Name : Improvements to Roads and Drains at Valmiki Maharshi road, AD Colony, Munithimayya Layout Cross Roads and Surrounding Area in Ward No. 01 of Yelahanka Sub Division

Agency : M/s. Technical Managaer (West) KRIDL, Bangaluru, 5th Block 17th Main Shivakumar Swamy Building, Bhashyam Circle Bangalore:560010

Customer's Reference : BBMP/EE/YNK.D/W.O/150/2019-20

Date of Receipt : 03-12-19

Sample Type /Size : CC Kerb Stone/ 450*165*400mm

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete

Date of test : 03/12/2019

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	Kg	(Sq.mm)	(KN)	(N/mm2)	(N/mm2)	(N/mm2)
1	A	100.01	165.51	2.864	7854	142.1	18.1	18.1	22.6
2	B	100.03	165.49	2.793	7857	145.2	18.5	18.5	23.1
3	C	100.01	165.50	2.815	7854	145.1	18.5	18.5	23.1

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-01-07-23** **Date: 26/11/2019**

Project Name : Improvements to Roads and Drains at Valmiki Maharshi road, AD Colony, Munithimayya Layout Cross Roads and Surrounding Area in Ward No. 01 of Yelahanka Sub Division

Agency : M/s. Technical Managaer (West) KRIDL, Bangaluru, 5th Block 17th Main Shivakumar Swamy Building, Bhashyam Circle Bangalore:560010

Customer's Reference : BBMP/EE/YNK.D/W.O/150/2019-20

Date of Receipt : 21-11-19

Customer ID : Drain Bottom Slab Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 26/11/2019

SL No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	19/11/2019	26/11/2019	151.22 X 151.38 X 149.86	22891	8.820	418.1	18.3	18.4
2	Drain Bottom Slab Concrete	M20	19/11/2019	26/11/2019	149.39 X 151.83 X 150.83	22682	8.880	416.3	18.4	
3	Drain Bottom Slab Concrete	M20	19/11/2019	26/11/2019	150.99 X 151.96 X 151.63	22944	8.275	428.7	18.7	

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 26/11/2019

Lab ID : CP-2020-01-07-23

Project Name : Improvements to Roads and Drains at Valmiki Maharshi road, AD Colony, Munithimayya Layout Cross Roads and Surrounding Area in Ward No. 01 of Yelahanka Sub Division

Agency : M/s. Technical Managaer (West) KRIDL, Bangaluru, 5th Block 17th Main Shivakumar Swamy Building, Bhashyam Circle Bangalore:560010

Customer's Reference : BBMP/EE/YNK.D/W.O/150/2019-20

Date of Receipt : 21-11-19

Customer ID : Drain Bottom Slab Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 26/11/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	19/11/2019	26/11/2019	149.23 X 150.44 X 151.82	22451	8.820	426.4	19.0	18.6
2	Drain Bottom Slab Concrete	M20	19/11/2019	26/11/2019	151.74 X 149.02 X 149.50	22613	8.880	421.6	18.6	
3	Drain Bottom Slab Concrete	M20	19/11/2019	26/11/2019	151.40 X 151.20 X 150.08	22892	8.275	417.1	18.2	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-01-07-23** **Date: 30/11/2019**

Project Name : Improvements to Roads and Drains at Valmiki Maharshi road, AD Colony, Munithimayya Layout Cross Roads and Surrounding Area in Ward No. 01 of Yelahanka Sub Division

Agency : M/s. Technical Managaer (West) KRIDL, Bangaluru, 5th Block 17th Main Shivakumar Swamy Building, Bhashyam Circle Bangalore:560010

Customer's Reference : BBMP/EE/YNK.D/W.O/150/2019-20

Date of Receipt : 25-11-19

Customer ID : Drain Side Wall Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 30/11/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	23/11/2019	30/11/2019	150.71 X 149.33 X 150.46	22506	8.820	421.3	18.7	18.7
2	Drain Side Wall Concrete	M20	23/11/2019	30/11/2019	150.05 X 151.90 X 151.63	22792	8.880	426.6	18.7	
3	Drain Side Wall Concrete	M20	23/11/2019	30/11/2019	151.26 X 151.39 X 149.31	22900	8.275	425.8	18.6	

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2020-01-07-23 **Date: 21/12/2019**

Project Name : Improvements to Roads and Drains at Valmiki Maharshi road, AD Colony, Munithimayya Layout Cross Roads and Surrounding Area in Ward No. 01 of Yelahanka Sub Division

Agency : M/s. Technical Managaer (West) KRIDL, Bangaluru, 5th Block 17th Main Shivakumar Swamy Building, Bhashyam Circle Bangalore:560010

Customer's Reference : BBMP/EE/YNK.D/W.O/150/2019-20

Date of Receipt : 25-11-19

Customer ID : Drain Side Wall Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 21/12/2019

SL No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	23/11/2019	21/12/2019	149.65 X 150.50 X 149.47	22522	8.995	531.7	23.6	23.5
2	Drain Side Wall Concrete	M20	23/11/2019	21/12/2019	151.44 X 150.63 X 151.78	22811	8.681	521.7	22.9	
3	Drain Side Wall Concrete	M20	23/11/2019	21/12/2019	150.97 X 149.22 X 149.03	22528	8.677	540.1	24.0	

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Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2020-01-07-23 **Date: 30/11/2019**

Project Name : Improvements to Roads and Drains at Valmiki Maharshi road, AD Colony, Munithimayya Layout Cross Roads and Surrounding Area in Ward No. 01 of Yelahanka Sub Division

Agency : M/s. Technical Managaer (West) KRIDL, Bangaluru, 5th Block 17th Main Shivakumar Swamy Building, Bhashyam Circle Bangalore:560010

Customer's Reference : BBMP/EE/YNK.D/W.O/150/2019-20

Date of Receipt : 25-11-19

Customer ID : Drain Side Wall Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 30/11/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	23/11/2019	30/11/2019	149.49 X 150.04 X 150.23	22429	8.820	416.7	18.6	18.5
2	Drain Side Wall Concrete	M20	23/11/2019	30/11/2019	151.16 X 150.83 X 151.85	22800	8.880	424.5	18.6	
3	Drain Side Wall Concrete	M20	23/11/2019	30/11/2019	149.95 X 150.41 X 151.34	22555	8.275	413.3	18.3	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-01-07-23** **Date: 21/12/2019**

Project Name : Improvements to Roads and Drains at Valmiki Maharshi road, AD Colony, Munithimayya Layout Cross Roads and Surrounding Area in Ward No. 01 of Yelahanka Sub Division

Agency : M/s. Technical Managaer (West) KRIDL, Bangaluru, 5th Block 17th Main Shivakumar Swamy Building, Bhashyam Circle Bangalore:560010

Customer's Reference : BBMP/EE/YNK.D/W.O/150/2019-20

Date of Receipt : 25-11-19

Customer ID : Drain Side Wall Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 21/12/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	23/11/2019	21/12/2019	150.63 X 150.61 X 150.03	22686	8.995	541.4	23.9	23.3
2	Drain Side Wall Concrete	M20	23/11/2019	21/12/2019	151.08 X 151.56 X 149.13	22897	8.681	519.6	22.7	
3	Drain Side Wall Concrete	M20	23/11/2019	21/12/2019	151.17 X 151.53 X 151.42	22906	8.677	532.4	23.2	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2020-01-07-23 **Date: 07/12/2019**

Project Name : Improvements to Roads and Drains at Valmiki Maharshi road, AD Colony, Munithimayya Layout Cross Roads and Surrounding Area in Ward No. 01 of Yelahanka Sub Division

Agency : M/s. Technical Managaer (West) KRIDL, Bangaluru, 5th Block 17th Main Shivakumar Swamy Building, Bhashyam Circle Bangalore:560010

Customer's Reference : BBMP/EE/YNK.D/W.O/150/2019-20

Date of Receipt : 02-12-19

Customer ID : Culvert Bottom Slab Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 07/12/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Culvert Bottom Slab Concrete	M20	30/11/2019	07/12/2019	150.87 X 150.69 X 149.84	22735	8.820	416.7	18.3	18.5
2	Culvert Bottom Slab Concrete	M20	30/11/2019	07/12/2019	150.45 X 151.51 X 151.88	22794	8.880	431.2	18.9	
3	Culvert Bottom Slab Concrete	M20	30/11/2019	07/12/2019	149.40 X 150.64 X 151.19	22506	8.275	412.9	18.3	

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

CIVIL Pro Sig..... Date..... BANGALORE

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-01-07-23** **Date: 14/12/2019**

Project Name : Improvements to Roads and Drains at Valmiki Maharshi road, AD Colony, Munithimayya Layout Cross Roads and Surrounding Area in Ward No. 01 of Yelahanka Sub Division

Agency : M/s. Technical Managaer (West) KRIDL, Bangaluru, 5th Block 17th Main Shivakumar Swamy Building, Bhashyam Circle Bangalore:560010

Customer's Reference : BBMP/EE/YNK.D/W.O/150/2019-20

Date of Receipt : 09-12-19

Customer ID : Culvert Side Wall Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 14/12/2019

SL No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Culvert Side Wall Concrete	M20	07/12/2019	14/12/2019	149.97 X 149.97 X 150.66	22490	8.820	420.4	18.7	18.6
2	Culvert Side Wall Concrete	M20	07/12/2019	14/12/2019	150.88 X 151.44 X 149.68	22850	8.880	422.8	18.5	
3	Culvert Side Wall Concrete	M20	07/12/2019	14/12/2019	149.61 X 151.52 X 150.15	22668	8.275	425.1	18.8	

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 04/01/2020

Lab ID	:	CP-2020-01-07-23
Project Name	:	Improvements to Roads and Drains at Valmiki Maharshi road, AD Colony, Munithimayya Layout Cross Roads and Surrounding Area in Ward No. 01 of Yelahanka Sub Division
Agency	:	M/s. Technical Managaer (West) KRIDL, Bangaluru, 5th Block 17th Main Shivakumar Swamy Building, Bhashyam Circle Bangalore:560010
Customer's Reference	:	BBMP/EE/YNK.D/W.O/150/2019-20
Date of Receipt	:	09-12-19
Customer ID	:	Culvert Side Wall Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	04/01/2020

SL No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Culvert Side Wall Concrete	M20	07/12/2019	04/01/2020	151.17 X 150.83 X 150.68	22801	8.995	524.7	23.0	22.9
2	Culvert Side Wall Concrete	M20	07/12/2019	04/01/2020	151.91 X 150.58 X 149.34	22875	8.681	511.7	22.4	
3	Culvert Side Wall Concrete	M20	07/12/2019	04/01/2020	150.80 X 151.01 X 151.23	22772	8.677	531.4	23.3	

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2020-01-07-23 **Date: 18/12/2019**

Project Name : Improvements to Roads and Drains at Valmiki Maharshi road, AD Colony, Munithimayya Layout Cross Roads and Surrounding Area in Ward No. 01 of Yelahanka Sub Division

Agency : M/s. Technical Managaer (West) KRIDL, Bangaluru, 5th Block 17th Main Shivakumar Swamy Building, Bhashyam Circle Bangalore:560010

Customer's Reference : BBMP/EE/YNK.D/W.O/150/2019-20

Date of Receipt : 13-12-19

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 18/12/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	11/12/2019	18/12/2019	149.40 X 149.43 X 151.86	22325	8.210	560.7	25.1	25.5
2	Cement Concrete Pavement	M30	11/12/2019	18/12/2019	150.22 X 149.33 X 151.04	22432	8.058	601.7	26.8	
3	Cement Concrete Pavement	M30	11/12/2019	18/12/2019	150.28 X 151.06 X 150.58	22702	8.090	560.0	24.7	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2020-01-07-23 **Date: 18/12/2019**

Project Name : Improvements to Roads and Drains at Valmiki Maharshi road, AD Colony, Munithimayya Layout Cross Roads and Surrounding Area in Ward No. 01 of Yelahanka Sub Division

Agency : M/s. Technical Managaer (West) KRIDL, Bangaluru, 5th Block 17th Main Shivakumar Swamy Building, Bhashyam Circle Bangalore:560010

Customer's Reference : BBMP/EE/YNK.D/W.O/150/2019-20

Date of Receipt : 13-12-19

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 18/12/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	11/12/2019	18/12/2019	151.90 X 150.07 X 149.69	22794	8.210	570.8	25.0	25.1
2	Cement Concrete Pavement	M30	11/12/2019	18/12/2019	150.03 X 149.70 X 151.66	22460	8.058	585.5	26.1	
3	Cement Concrete Pavement	M30	11/12/2019	18/12/2019	149.96 X 150.69 X 149.06	22597	8.090	548.8	24.3	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-01-07-23** **Date: 18/12/2019**

Project Name : Improvements to Roads and Drains at Valmiki Maharshi road, AD Colony, Munithimayya Layout Cross Roads and Surrounding Area in Ward No. 01 of Yelahanka Sub Division

Agency : M/s. Technical Managaer (West) KRIDL, Bangaluru, 5th Block 17th Main Shivakumar Swamy Building, Bhashyam Circle Bangalore:560010

Customer's Reference : BBMP/EE/YNK.D/W.O/150/2019-20

Date of Receipt : 13-12-19

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 18/12/2019

SL No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	11/12/2019	18/12/2019	151.09 X 151.16 X 149.29	22838	8.210	593.2	26.0	25.7
2	Cement Concrete Pavement	M30	11/12/2019	18/12/2019	149.97 X 149.14 X 149.11	22366	8.058	601.6	26.9	
3	Cement Concrete Pavement	M30	11/12/2019	18/12/2019	151.92 X 149.99 X 150.58	22786	8.090	551.8	24.2	

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HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | GEO TECHNICAL | PROJECT | STRUCTURAL

TEST RESULTS OF GRADATION FOR GSB
(IS 2386:(Part 1) 1963 (RA2011)

Lab ID : **CP-RW-2020-01-07-23** **Date: 25-12-19**

Project Name : Improvements to Roads and Drains at Valmiki Maharshi road, AD Colony, Munithimayya Layout Cross Roads and Surrounding Area in Ward No. 01 of Yelahanka Sub Division

Agency : M/s. Technical Managaer (West) KRIDL, Bangaluru, 5th Block 17th Main Shivakumar Swamy Building, Bhashyam Circle Bangalore:560010

Customer Reference : BBMP/EE/YNK.D/W.O/150/2019-20

Date of Receipt : 23-12-19

Type of Mix : GSB (Granular Sub Base)

Date of test : 23-12-19

Oven Dry Weight : 10000 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	% Cumulative Weight Retained	% Passing	Spec. Limit Vide Table 400.1 MORTH Specification
75	0	0	0	100	100
53	997	997	9.97	90.03	80-100
26.5	1685	2682	26.82	73.18	55-90
9.5	1292	3974	39.74	60.26	35-65
4.75	1490	5464	54.64	45.36	25-55
2.36	1764	7228	72.28	27.72	20-40
0.425	1666	8894	88.94	11.06	10-25
0.075	1106	10000	100.00	0.00	0-5

TESTS ON FILLER SCREEN MATERIALS

Sl no	Particulars	Test results	Spec.Limit Vide Table
1	Liquid Limit, %	21.33%	Maximum 25
2	Plasticity index, %	Non plastic	Maximum 6

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